ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. 02AH26		PROJEC Cheshire			ng study		NO.		/		Activity Code: 12345
SAMPLER Mike murp							OF	a n A	y te		Dutset # 20020033
STA. NO.	DATE	TIME	COSp	GRAB	Mik Murys STATIO	N LOCATION	CON- TAINERS	A			TAG NUMBERS
DO1	1/2	00:00			GHS		1				5-340127 1 to 1
SO1	1/2	00:00	X		GHS	NIII NIII NIII NIII NIII NIII NIII NII	1				5-340126 1 to 1
SO2	1/2	00:00	X		RVHS		1				5-340128 1 to 1
SO3	1/2	00:00	Х		ADDAVILLE		1				5-340129 1 to 1
											GHS # 3012 , PSTg Aug = 18.8
			_								GH5#3013, Psig Avg = 18.75
											RUHS # 3009, Psig AUG = 18.75
											Addaville # 3011, PSTG AUG = 18.55
	-										
Relinquisher Relinquisher	luz	/		٥	Date / Time	lly mo	nature) /au nature)				Ship To:
											ATTN:
Relinquished by: (Signature) Date / Time Received for Laborato (Signature)		ory by:	0	ate / T	ime	Airbill Number					
						Ch. M.	5-140031	41)	702	15:00	Chain of Custody Seal Numbers

9,0101A Project Name Cheshire Monitoring Study Lab arrival: 1-15-02 Due: 02-05-02 Project No. Dalaset # 20020033 02AH26 Sampler Mike murphy Cooler ID 1 Page 5-140031 Sample Id: Date / Time Grab / Comp **Station Location No Bottles** Tag Numbers Station () Grab Com 02AH26DO1 DO1 02/01/2002 00:00:00 **GHS** 1 5-340127 1 to 1 Bottle No. 1 Parameter PM10 Date / Time Sample Id: **Station** Grab / Comp Station Location **No Bottles** Tag Numbers SO1 Grab Com 02AH26SO1 02/01/2002 00:00:00 GHS 1 5-340126 1 to 1 Bottle No. 1 **Parameter** PM10 Sample Id: Grab / Comp **Station Location** No Bottles Station Date / Time Tag Numbers () Grab Com 02AH26SO2 **SO2 RVHS** 02/01/2002 00:00:00 5-340128 1 to 1 1 Bottle No. 1 **Parameter** PM10 Sample Id: Station Grab / Comp **Station Location** Date / Time **No Bottles** Tag Numbers SO3 () Grab () Com 02AH26SO3 02/01/2002 00:00:00 **ADDAVILLE** 1 5-340129 1 to 1

Bottle No.

1

Parameter PM10

CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2002 0033 Cheshire Monitoring Study
TSP

- ☐ Chain-of-Custody
- Analysis Request Form(s)*
- ☐ Sample Tags
- Transmittal Report w/signatures of the following:
 - Analyst (s)
 - Peer Reviewer
 - Environmental Data Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by:

Data Management Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

JAN 2 4 2002

Date:

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Edgar Santiago, Chemist

Region 5 Central Regional Laboratory

To:

ttached are the results for:

CHESHIRE MONITORING STUDY

CRL data set number: 20020033

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH26D01, 2002AH26S01, 2002AH26S02,

and 2002AH26S03.

JAN	2	4	2002	
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Data Man	agamant (Cord	inator	and	Data	Da	COINA	4
Data Maii	agement (Joora	maioi	anu.	Date	ΛC	CEIVE	J

Date Transmitted: JAN 2 4 2902

Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

Received by and Date

Comments:

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: <u>ANALYTICAL AND INORGANIC (A&I)</u>

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 01/02/2002 LAB ARRIVAL DATE: 01/15/2002 DUE DATE: 02/05/2002 DU NUMBER: 90101A DATA SET NUMBER: 20020033 STUDY: CHESHIRE MONITORING STUDY_PRIORITY: 1 LABORATORY: CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)		i a
1	2002AH26D01	GUIDING HANDS SCHOOL	0.0292		
2	2002AH26S01	GUIDING HANDS SCHOOL	0.0265	 1	
3	2002AH26S02	RVHS	0.0353		
4	2002AH26S03	ADDAVILLE	0.0274		
DATE	OF ANALYSIS		01/23-24/2002)=
A	NALYST		6.8		

Reviewed by:	FWO	Date:0[12412002
210.10		

Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page_of _

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist Batch Number: 20020033 Facility: CHESHIRE MONITORING	~ STUPY	
Parameter: SUSPENDED PARTICLES CRL.SOP: ALG 047		
Package Overview:	YES	NO
Raw Data Package Complete?		
Results Reported Correctly?		
Special Requests Done?	υ/A	
Calculations Checked?		
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	NA	
Field •C Checked?	NA	J-7,
Quality Control:		•
Holding Times Met?	N/A	
Preservation Checked?	N/A	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?		
Calibration Verification Checked?	Alu	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	NA	
Matrix QC Checked?	NA	
Digestion Blanks Checked?	NA	
Spiked Blank Checked?	MA	
LCS (if applicable) Checked?	NA	
QCS (if applicable) Checked?	V A	
Final Check		
Technical Review Done?		
Narrative Complete?		

Analyst:	6.8	Peer Reviewer: FMA	
Date:	1/24/2002	Date: 1/24/02	
2	, ,	Comments Attached? (Y/N) \	

Data Set Number:	20020033	_ Parameter:	Suspended Particles	
Facility Name:	CHESHIRE MONITOR	ING STUDY		
Study Name:	CHESHIRE MONITOR	ING STUDY		IMMEDICE PROFIL
Date of Narrative:	01/23/2002	Analyst:	<u>ES</u>	i)
		Signature:	E.S-	

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on January 15, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280097	2002AH26D01	5-340127
Q6280032	2002AH26S01	5-340126
Q6280098	2002AH26S02	5-340128
Q6280096	2002AH26S03	5-340129

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 01/23/2002 and was completed on 01/24/2002. All exposed filters were in good conditions.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers:

20020033, 20020034

Date of Analysis 01/23-24/2002

Analyst:

ES

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences.
Actual (g)	Balanced (g)	(g)
		Limit +/=0.0005 g
-	19	
1.0000	1.0002	-0.0002
2,0000	2.0001	-0.0001
5.0000	4.9999	0.0001

QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Analysis	ANALYST	Exposed	
Number	1.D Number	Date		weight (g)	
<u></u>					
Q6280103	2002AH27S02	01/24/02	Analyst 1	4.3848	
Q6280103	2002AH27S02	01/24/02	Analyst 2	4.3849	
Differences (Limit +/-	5 mg)		HARACTER CONTRACTOR CO	-0.0001	
Q6280097	2002AH26D01	01/24/02	Analyst 1	4.4052	
Q6280097	2002AH26D01	01/24/02	Analyst 2	4.4055	
Differences (Limit +/-	5 mg)			-0.0003	

CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^	of filters (g)	weight (g)	Gain	(UG/M^3)
			T								
Data set Nu	mber 2002003	3				*****					
Q6280097	2002AH26D01	01/02/02	Guiding Hands School	3013	18.75	#7	0.00	4.3760	4.4052	0.0292	ERR
Q6280032	2002AH26S01	01/02/02	Guiding Hands School	3012	18.80		0.00	4.3853	4.4118	0.0265	ERR
G6280098	2002AH26S02	01/02/02	RVHS	3009	18.25		0.00	4.3514	4.3867	0.0353	ERR
Q6280096	2002AH26S03	01/02/02	Addaville	3011	18.55	-2788	0.00	4.3971	4.4245	0.0274	ERR

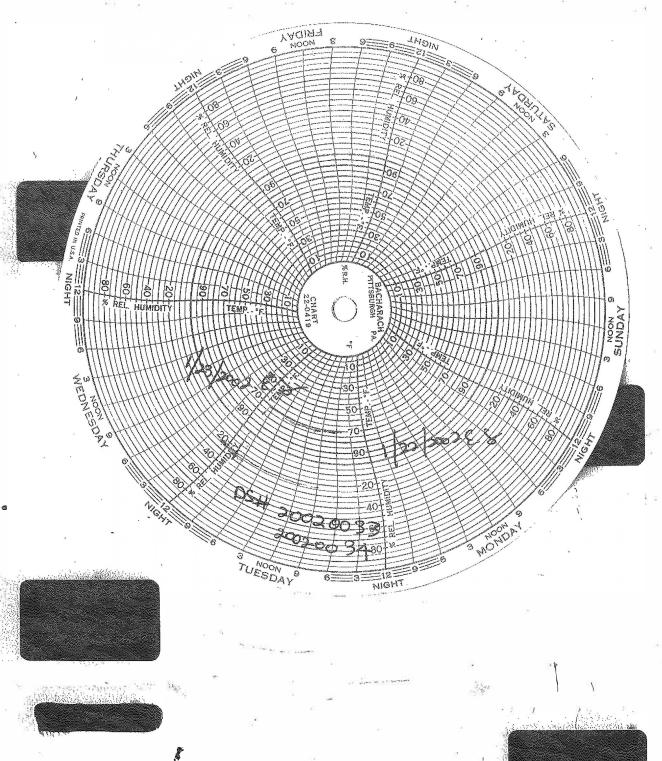
Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10 .
Number	I.D Number	Date	Location	SN	Avg		olume (M^	of filters (g)	weight (g)	Gain	(UG/M^3)
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Data set Nu	mber 20020034	4	1317					J	A2.54		
Q6280100	2002AH27D01	01/08/02	Guiding Hands School	3013	18.45	V. C.	0.00	4.3655	4.3846	0.0191	ERR
Q6280099	2002AH27S01	01/08/02	Guiding Hands School	3012	18.80	**	0.00	4.3532	4.3723	0.0191	ERR
G6280103	2002AH27S02	01/08/02	RVHS	3009	18.50	100	0.00	4.3702	4.3848	0.0146	ERR
Q6280101		1000	Addaville	3011	18.55	1	0.00	4.3694	4.3889	0.0195	ERR

esc. 1922	FILTER	TARE	DUP	EXPOSED	EXPOSED	COMMENTS
200	I.P.	Wt.	wt.	wt.	wt. DUP	
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US EPA Region 5 Field Sample

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